

CLAIMS

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1. A sensed-pressure-data converter comprising:
- a pressure sensitive resistance element comprising:
- two insulating substrates disposed face to face; and
- 5 a pressure sensitive conductor interposed between said insulating substrates, for varying a resistance thereof according to a load applied from an outside of said insulating substrates;
- a controller for detecting an electric characteristic of said pressure sensitive resistance element, converting the electric
- 10 characteristic into a desired electric characteristic signal, and issuing a desired electric characteristic signal, comprising:
- an A/D converter receiving a signal from said pressure sensitive resistance element
- a memory preliminarily storing a compensation value
- 15 determined based on an error signal between the electric characteristic of said pressure sensitive resistance element and a reference electric characteristic; and
- a D/A converter compensating a signal from said A/D converter based on the electric characteristic of said pressure sensitive
- 20 resistance element due to a resistance change of said pressure sensitive resistance element based on the compensation value stored in said memory, and converting into a desired electric characteristic signal and issuing; and
- an adjustment value input terminal for inputting the error signal
- 25 into an input terminal of said A/D converter.

2. The sensed-pressure-data converter according to claim 1,

wherein said controller further comprises a temperature sensor for compensating suitably to an ambient temperature of said pressure sensitive resistance element.

- 5 3. The sensed-pressure-data converter according to claim 1 comprising a plurality of said pressure sensitive resistance elements, wherein said controller further comprises output terminals corresponding to the plurality of said pressure sensitive resistance elements, respectively,

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10 4. The sensed-pressure-data converter according to claim 1 further comprising:

a reference output voltage source for issuing a reference value of an offset of an output of said D/A converter; and

15 an error amplifier for receiving an output of said D/A converter and the reference value and for outputting the error signal.

20 5. The sensed-pressure-data converter according to claim 1, wherein said controller further comprises an abnormality detecting output terminal for detecting and outputting an signal showing an abnormality of a signal processing in said controller. 2

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